

Title (en)
CARBONATE BLEND POLYMER COMPOSITIONS COMPRISING A HIGH MOLECULAR WEIGHT BRANCHED CARBONATE POLYMER COMPONENT AND METHODS FOR THEIR PREPARATION

Title (de)
MASSEN AUF BASIS VON POLYCARBONATMISCHUNGEN ENTHALTEND EINE VERZWEIGTE POLYCARBONATKOMPONENTE HOHEN MOLEKULARGEWICHTES UND HERSTELLUNGSVERFAHREN FUER DIESE

Title (fr)
COMPOSITIONS A BASE DE MELANGES DE POLYMERES DE CARBONATE COMPRENANT UN CONSTITUANT POLYMERE DE CARBONATE RAMIFIE A POIDS MOLECULAIRE ELEVE ET LEURS PROCEDES DE PREPARATION

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Application
EP 95901900 A 19941114

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Abstract (en)
[origin: WO9514742A1] Novel carbonate polymer blend compositions and processes for their preparation are disclosed where an amount of a high molecular weight branched carbonate polymer component (HMWB PC) is combined with a second, homogeneously dispersible lower molecular weight polycarbonate. A preferred aspect of the invention is directed to intermediate compositions and processes for their use where the second PC is combined with a HMWB PC precursor having latent thermally reactive moieties which can be activated to produce a desired and controlled level of high molecular weight, branched carbonate polymer component. Arylcyclobutene moieties are found to be preferred latent thermally reactive moieties. The carbonate polymer blends according to the present invention have surprisingly improved combinations of physical properties, thermal stability, color, melt strength, transparency and processability. When shaped or molded into various types of articles, the articles possess these very desirable properties and are additionally able to be provided with a low gloss or matte surface. These polymeric compositions are well suited for use in preparing molded articles, such as injection molded articles; composite or blend materials with further filler or blend components; extruded articles such as sheet, fiber or film; and blow molded or thermoformed articles.

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